

**Notice of Allowability**

Application No.

09/866,352

Applicant(s)

KATSUNO ET AL.

Examiner

Michael B. Holmes

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2121

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to January 18, 2005.
2. ☒ The allowed claim(s) is/are 1-24.
3. ☒ The drawings filed on 25 May 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☒ Certified copies of the priority documents have been received in Application No. 09/866,352.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_



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**UNITED STATES PATENT AND TRADEMARK OFFICE**

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P.O. Box 1450, Alexandria, Virginia 22313-1450 – [www.USPTO.GOV](http://www.USPTO.GOV)

**Examiner's Detailed Office Action**

1. Claims 1-24 are allowed.

**REASONS FOR ALLOWANCE**

2. The following is an Examiner's statement for reasons for allowance:
3. The closest prior art *Myers et al.* (USPN 6,188,351) and *Willassen*, "Positioning a Mobile Station" December 1998 do not teach or render obvious applicant's claimed invention. In particular, as pointed out below, the prior art lacks certain features and the combination as specified in the respective claims.
4. With regards to claim 1 *Myers et al.* and *Willassen* do not disclose ... calculating a cosine ( $\cos\theta$ ) of an angle  $\theta$  formed by an information progress vector and a terminal progress vector, determining whether the  $\cos\theta$  is equal to or greater than a predetermined value, and halting a transmission of a message packet from a specific terminal when a decision is determined to be false.
5. With regards to claim 8 *Myers et al.* and *Willassen* do not disclose ... calculating a cosine ( $\cos\theta$ ) of an angle  $\theta$  formed by an information progress vector and a terminal progress vector, determining whether the  $\cos\theta$  is equal to or greater than a predetermined value, and

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halting a transmission of a message packet from a specific terminal when a decision is determined to be false.

6. With regards to claim 15 *Myers et al.* and *Willassen* do not disclose ... calculating a cosine ( $\cos\theta$ ) of an angle  $\theta$  formed by an information progress vector and a terminal progress vector, determining whether the  $\cos\theta$  is equal to or greater than a predetermined value, and halting a transmission of a message packet from a specific terminal when a decision is determined to be false.

7. With regards to claim 20 *Myers et al.* and *Willassen* do not disclose ... a cosine calculator for calculating a cosine ( $\cos\theta$ ) of an angle  $\theta$  formed by an information progress vector and a terminal progress vector, a decision module for determining whether the  $\cos\theta$  is equal to or greater than a predetermined value, and a transmit control module for transmitting information when a decision output of a decision module is true and halting transmission of a message packet when an output of a decision module is false.

8. With regards to claim 21 *Myers et al.* and *Willassen* do not disclose ... calculating, in a receiving terminal, an information progress vector representing a direction of a received message packet that is progressing away from the source terminal, determining, in a receiving terminal, whether the received message packet should be forwarded, based on the information progress vector, and transmitting the received message packet from the receiving terminal based on the determination.

9. With regards to claim 23 *Myers et al.* and *Willassen* do not disclose ... an information progress vector calculator that calculates an information progress vector representing a direction of a received message packet that is progressing away from the source terminal, a decision mo-

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dule that determines whether a received message packet should be forwarded, based on a information progress vector, and a transmitter that transmit the received message packet based on determination by a decision module.

### Correspondence Information

10. Any inquires concerning this communication or earlier communications from the examiner should be directed to Michael B. Holmes, who may be reached Monday through Friday, between 8:00 a.m. and 5:00 p.m. EST. or via telephone at (571) 272-3686 or facsimile transmission (571) 273-3686 or email [Michael.holmesb@uspto.gov](mailto:Michael.holmesb@uspto.gov).

If you need to send an Official facsimile transmission, please send it to (703) 746-7239.

If attempts to reach the examiner are unsuccessful the Examiner's Supervisor, Anthony Knight, may be reached at (571) 272-3687.

Hand-delivered responses should be delivered to the Receptionist @ (Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22313), located on the first floor of the south side of the Randolph Building.

***Michael B. Holmes***

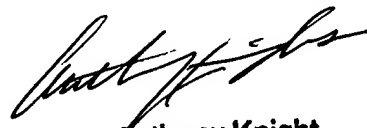
Patent Examiner

Artificial Intelligence

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United States Department of Commerce

Patent & Trademark Office



**Anthony Knight**

**Supervisory Patent Examiner**

**Group 3600**

*Wednesday, March 30, 2005*

*MBH*